

ARG81914 Human COMT ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81914-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81914-002	Standard	2 X 10 ng/vial	4°C
ARG81914-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81914-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81914-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81914-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81914-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81914-008	25X Wash buffer	20 ml	4°C
ARG81914-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81914-010	STOP solution	10 ml (Ready to use)	4°C
ARG81914-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81914 Human COMT ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human COMT in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	COMT
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.8%; Inter-Assay CV: 7.9%
Alternate Names	EC 2.1.1.6; Catechol O-methyltransferase; HEL-S-98n

Application Instructions

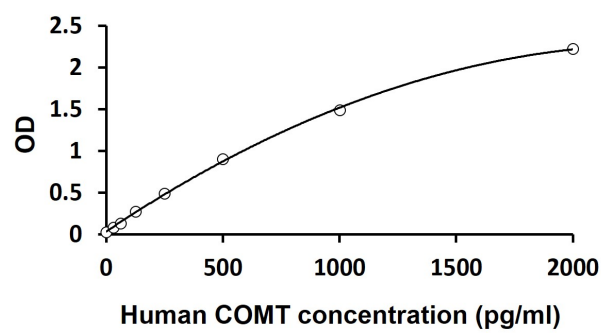
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	COMT
Gene Full Name	catechol-O-methyltransferase
Background	Catechol-O-methyltransferase catalyzes the transfer of a methyl group from S-adenosylmethionine to catecholamines, including the neurotransmitters dopamine, epinephrine, and norepinephrine. This O-methylation results in one of the major degradative pathways of the catecholamine transmitters. In addition to its role in the metabolism of endogenous substances, COMT is important in the metabolism of catechol drugs used in the treatment of hypertension, asthma, and Parkinson disease. COMT is found in two forms in tissues, a soluble form (S-COMT) and a membrane-bound form (MB-COMT). The differences between S-COMT and MB-COMT reside within the N-termini. Several transcript variants are formed through the use of alternative translation initiation sites and promoters. [provided by RefSeq, Sep 2008]
Function	Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones. Also shortens the biological half-lives of certain neuroactive drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol. [UniProt]
Highlight	Related products: COMT antibodies ; COMT ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	The N-terminus is blocked. [UniProt]



ARG81914 Human COMT ELISA Kit standard curve image

ARG81914 Human COMT ELISA Kit results of a typical standard run with optical density reading at 450 nm.